PROJECT DESCRIPTION

I. GENERAL

This project involves the upgrade of the existing traffic signal at the intersection of MD 108 (Sandy Spring Road) at Old Baltimore Road in Montgomery County. New ADA ramps and Accessible Pedestrian Signals (APS) will be installed crossing each leg of the intersection. MD 108 is assumed to run in an east/ west direction.

II. INTERSECTION OPERATION

- 1. The intersection is to operate in a NEMA 6-phase, semi-actuated mode, with exclusive left turn phasing for both eastbound and westbound MD 108. Northbound and southbound Old Baltimore Road run concurrently.
- 2. The existing NEMA full-traffic-actuated, eight (8) phase controller housed in a NEMA 6 base mounted cabinet shall be used at this intersection.

NOTES

- All pavement markings shall be installed in accordance with Administration standards.
- The contractor shall be responsible for terminating all signal cable to the appropriate terminals and properly labeling each cable.
- 3. All traffic signal foundations shall be installed at the final sidewalk or curb grade for closed sections, highest roadway profile grade for open sections, to meet clearances as specified in the appropriate 800 series Standard Plates. The contractor shall verify ultimate grades prior to the installation of all signal equipment.
- 4. All underground and overhead utilities shown on these plans are schematic only and may not be complete. The contractor shall be responsible for notifying MISS Utility prior to construction so that all utilities may be located in the field. If the contractor perceives that a conflict between the utilities and the traffic signal will occur, the contractor shall notify the Project Engineer immediately so that the conflict may be resolved.
- The contractor shall verify all proposed pole locations prior to installation. Video detection location and alignment shall be coordinated with Montgomery County engineer.
- 7. The contractor shall deliver APS pushbuttons and central control unit to Mr. Kamal Hamud at Montgomery County Technical Center at 1283 Seven Locks Road, Rockville, MD 20854 at least 3 weeks prior to beginning work. The contractor shall have the APS message programmed from the factory and deliver the APS wave files to Mr. Kamal Hamud.
- The contractor shall notify Mr. Kamal Hamud 72 hours prior to beginning work.
- The contractor shall maintain the continuous operation of all interconnect, vehicular and pedestrian detectors, and lighting devices. If any device is damaged by the contractor, it shall be repaired within 72 hours by the contractor at no cost to the Administration after notification by the Engineer.
- APS will function as follows: To cross Diney Sandy Spring Road:
 - A. When the pedestrian locates and presses pushbutton for an extended time, the message will announce- "WAIT to cross Olney Sandy Spring at Old Baltimore, WAIT."
 - B. When Walk phase begins, the message will be a rapid tick which will last for the duration of the walk phase.
 - To cross Old Baltimore Road:
 - A. When the pedestrian locates and presses pushbutton for an extended time, the message will announce- "WAIT to cross Old Baltimore at Olney Sandy Spring. WAIT."
 - B. When Walk phase begins, the message will be a rapid tick which will last for the
- duration of the walk phase. 11. Pushbuttons are to be located so that they can be activated by a person in a wheelchair reaching less than 18" from a 60" x 60" level landing area with a cross slope of less than or equal to 2%.
- The 10' separation between pushbuttons is to be measured from face of pushbutton to face of pushbutton, not center to center of pole.
- Pushbutton arrows are to be parallel to the crossing for which they are intended.
- Location of accessible pedestrian signal pushbuttons must meet location requirement of MD MUTCD Sections 4E.08 and 4E.10, Figures 4E.3 and 4E-4, and the NCHRP publication "Accessible Pedestrian Signals: Guide to Best Practice." If not met, the contractor is to stop work on pushbutton locations until a design waiver is obtained and approved by the Director of the Office of Traffic & Safety (DDTS).

OFFICE OF TRAFFIC AND SAFETY

ASSISTANT DIVISION CHIEF, TRAFFIC OPERATIONS

CHIEF, SUPPLY OFFICER IV (SIGNAL SHOP WAREHOUSE)

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CHIEF. TRAFFIC OPERATIONS

CHIEF, SIGNAL OPERATIONS

CHIEF, SIGN OPERATIONS

MS. CORREN JOHNSON

410-787-7630

410-787-7630

410-787-7650

410-787-7670

410-787-7668

MR. ED RODENHIZER

MR. EUGENE BAILEY

MR. MIKE STOCKER

CONTACTS

MONTGOMERY COUNTY MR. KAMAL HAMUD CHIEF OF TRAFFIC DIVISION MCDPW&T 240-777-8761

<u>DISTRICT</u> MR. BRIAN YOUNG DISTRICT ENGINEER

MS. ANYESHA MOOKHERJEE ASSISTANT DISTRICT ENGINEER - TRAFFIC 301-513-7404

MR. VICTOR GRAFTON UTILITY ENGINEER 301-513-7350

301-513-7311

MR. KEVIN NOWAK & MR. DUANE BERNARD ASSISTANT DISTRICT ENGINEER - CONSTRUCTION 301-513-7385

MR. TOM FOUNTAIN ASSISTANT DISTRICT ENGINEER - MAINTENANCE 301-513-7304

100000 MAINTENANCE OF TRAFFIC (PER INTERSECTION)

201032 CLASS 2 EXCAVATION

203030 TEST PIT EXCAVATION

EQUIPMENT LIST

A. EQUIPMENT TO BE FURNISHED BY STATE HIGHWAY ADMINISTRATION

	CAT CODE	DESCRIPTION	UNITS	QUANTITY
	900000 SHEET ALUMI	NUM GROUND MOUNTED SIGN R4-7 (24" x 30") W11-15 (30" x 30") W16-7pL (24" x 12") NUM MAST ARM/ POLE MOUNTED SIGN M1-5(6) (30" x 48") M1-5(6) (48" x 72") R10-3(1) (9" x 15") CTION INTERFACE EQUIPMENT: 1-8 CAMERAS	SF EA EA SF EA EA EA	27 2 2 2 76 2 2 8
		URNISHED AND/OR INSTALLED BY CONTRACTOR DESCRIPTION	UNITS	S QUANTITY
J	ter 1 1 to the tar tan	DEGGITT TON	0,4116	, GUARTITI

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR QUANTITY CAT CODE DESCRIPTION UNITS 504088 HOT MIX ASPHALT SUPERPAVE 9.5MM FOR SURFACE, PG64-22, LEVEL-3 TON 504314 HOT MIX ASPHALT SUPERPAVE 19.0MM FOR FULL DEPTH PATCH, PG65-22, LEVEL-3 TON 10 SY 62 520109 3 INCH GRADED AGGREGATE BASE COURSE 570 585621 12 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES 140 585625 24 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES 1350 585700 REMOVAL OF EXISTING PAVEMENT MARKING LINES, ANY WIDTH 600000 TYPE A COMBINATION CURB AND GUTTER ANY HEIGHT OR DEPTH 395 600000 TYPE A CURB ANY HEIGHT OR DEPTH 300 7840 655105 5 INCH CONCRETE SIDEWALK 270 655120 DETECTABLE WARNING SURFACE FOR CURB RAMPS 704345 PLACING FURNISHED TOPSOIL 4 INCH DEPTH 705500 TURFGRASS ESTABLISHMENT 2-WIRE APS CENTRAL CONTROL UNIT ADJUST HANDHOLE TO GRADE AND REPLACE FRAME AND COVER 800000 AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION AND SIGNS 800000 IP-BASED VIDEO DETECTION CAMERA & ANY LENGTH LEAD-IN CABLE 800000 5 FT OR 10 FT PEDESTAL POLE WITH BREAKAWAY COUPLINGS, FOUNDATION & GROUND ROD CONDUIT BEND IN EXISTING FOUNDATION BASE (ANY SIZE) 800000 REMOVE & DISPOSE OF EXISTING SIGNAL EQUIPMENT (PER SIGNALIZED INTERSECTION LOCATION) 800000 UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT - BORED OR SLOTTED 800000 UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED 800000 WOOD SIGN SUPPORTS UP TO 4 INCH X 6 INCH INSTALL OVERHEAD OR GROUND MOUNTED SIGN (INCLUDING ALL HARDWARE) 103 800000 800000 THIRD PARTY CONCRETE TESTING (PER INTERSECTION) 800000 RELOCATE EXISTING SIGNAL HEAD INCLUDING NEW MOUNTING HARDWARE 720 802501 NO. 6 AWG STRANDED BARE COPPER GROUND WIRE FURNISH AND INSTALL ELECTRICAL HANDHOLE 811001

C. ALL MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME PROPERTY OF THE CONTRACTOR.

813023 RELOCATE EXISTING GROUND MOUNTED SIGNS

861105 ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)

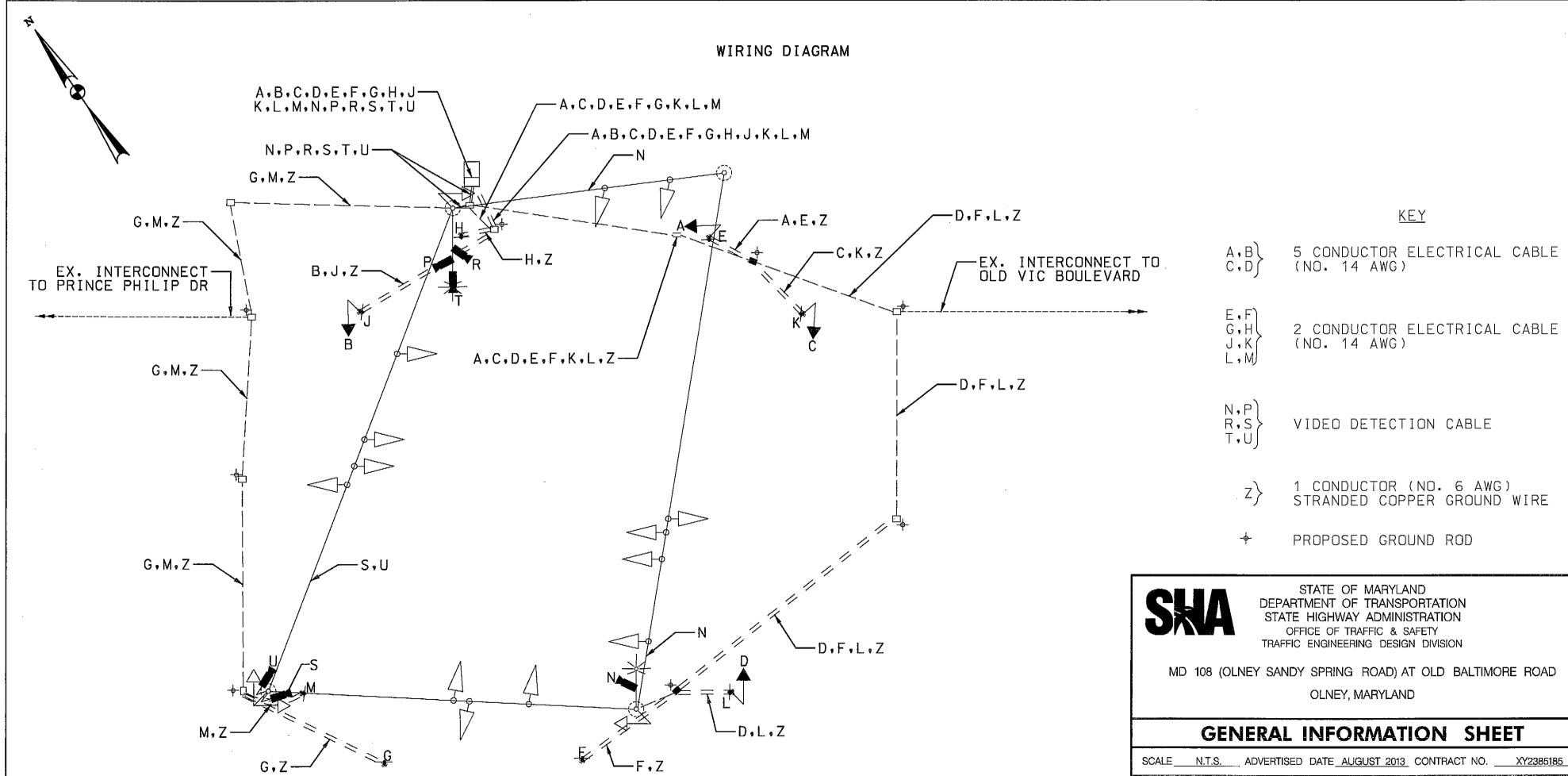
861107 ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)

PHASE CHART

1560

670

NO CHANGE



5 CONDUCTOR ELECTRICAL CABLE C,D((NO. 14 AWG)

CONDUCTOR ELECTRICAL CABLE G,H J,K((NO. 14 AWG)

VIDEO DETECTION CABLE R,ST,U

CONDUCTOR (NO. 6 AWG) STRANDED COPPER GROUND WIRE

PROPOSED GROUND ROD

ABRA, WANG & ASSOCIATES, INC.

7055 SAMUEL MORSE DRIVE SUITE 100 COLUMBIA, MD 21046

(443) 741-3500

STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION OFFICE OF TRAFFIC & SAFETY TRAFFIC ENGINEERING DESIGN DIVISION

MD 108 (OLNEY SANDY SPRING ROAD) AT OLD BALTIMORE ROAD OLNEY, MARYLAND

GENERAL INFOR	MATION S	SHEET
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	DESIGNED BY_	L. RIDDICK	COUNTY	MONTGOMERY	
	DRAWN BY	L. RIDDICK	LOGMILE	15010814.37	
	CHECKED BY_	A. GRIFFIN	TIMS NO	M055	
	F.A.P. NO	SEE TITLE SHEET	TOD NO		
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WWW.SABRA-WANG.COM TS NO. 3118(D) DRAWING SG-03 OF 04 SHEET NO. PLOTTED: Friday, August 30, 2013 AT 05:35 PM ILE: R:\2008\73 SHA BCS 2008-05A_TEDD DESIGN_STV_JV_\$5M\Task 240 Montgomery County APS-CPS\dgn\MD 108 at Old Baltimore\pSG-N001_MD 108 & Old Baltimore.dgn